

2012 Consumer Confidence Report

Water System Name: Coarsegold Highlands

Report Date: 6/28/2013

We test the drinking water quality for many constituents as required by state and federal regulations. This report shows the results of our monitoring for the period of January 1 - December 31, 2012 and may include earlier monitoring data.

Este informe contiene información muy importante sobre su agua potable. Tradúzcalo ó hable con alguien que lo entienda bien.

Type of water source(s) in use: Hard rock wells, which draw from underground aquifers.

Name & location of source(s): Coarsegold #2 & Coarsegold #3

Drinking Water Source Assessment information: A source water assessment was completed January 23, 2002 for the active water supply wells of the Hillview Water Co. – Coarsegold. The sources are considered most vulnerable to the following activities not associated with any detected contaminants: Transportation corridors – Roads/Streets; Wells – Water supply. A copy of the complete assessment may be viewed at: Hillview Water Co. – Coarsegold Highlands, 40312 Greenwood Way, P.O. Box 2269, Oakhurst, CA 93644; Or you may request a summary of the assessment by contacting Mr. James Foster at (559) 683-4322 or P.O. Box 2269, Oakhurst, CA 93644.

Time and place of regularly scheduled board meetings for public participation: Do not schedule meetings at regular intervals. Public is allowed to participate in all CPUC proceedings.

For more information, contact: Hillview Water Co., Inc. Phone: (559) 683-4322

TERMS USED IN THIS REPORT

Maximum Contaminant Level (MCL): The highest level of a contaminant that is allowed in drinking water. Primary MCLs are set as close to the PHGs (or MCLGs) as is economically and technologically feasible. Secondary MCLs are set to protect the odor, taste, and appearance of drinking water.

Maximum Contaminant Level Goal (MCLG): The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs are set by the U.S. Environmental Protection Agency (USEPA).

Public Health Goal (PHG): The level of a contaminant in drinking water below which there is no known or expected risk to health. PHGs are set by the California Environmental Protection Agency.

Maximum Residual Disinfectant Level (MRDL): The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

Maximum Residual Disinfectant Level Goal (MRDLG): The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.

Primary Drinking Water Standards (PDWS): MCLs and MRDLs for contaminants that affect health along with their monitoring and reporting requirements, and water treatment requirements.

Secondary Drinking Water Standards (SDWS): MCLs for contaminants that affect taste, odor, or appearance of the drinking water. Contaminants with SDWSs do not affect the health at the MCL levels.

Treatment Technique (TT): A required process intended to reduce the level of a contaminant in drinking water.

Regulatory Action Level (AL): The concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.

Variances and Exemptions: Department permission to exceed an MCL or not comply with a treatment technique under certain conditions.

ND: not detectable at testing limit

ppm: parts per million or milligrams per liter (mg/L)

ppb: parts per billion or micrograms per liter (µg/L)

ppt: parts per trillion or nanograms per liter (ng/L)

ppq: parts per quadrillion or picogram per liter (pg/L)

pCi/L: picocuries per liter (a measure of radiation)

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally-occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity.

Contaminants that may be present in source water include:

- *Microbial contaminants*, such as viruses and bacteria, that may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- *Inorganic contaminants*, such as salts and metals, that can be naturally-occurring or result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.
- *Pesticides and herbicides*, that may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.
- *Organic chemical contaminants*, including synthetic and volatile organic chemicals, that are by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, agricultural application, and septic systems.
- *Radioactive contaminants*, that can be naturally-occurring or be the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, the USEPA and the California Department of Public Health (Department) prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. Department regulations also establish limits for contaminants in bottled water that provide the same protection for public health.

Tables 1, 2, 3, 4, 5, 7, and 8 list all of the drinking water contaminants that were detected during the most recent sampling for the constituent. The presence of these contaminants in the water does not necessarily indicate that the water poses a health risk. The Department allows us to monitor for certain contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of the data, though representative of the water quality, are more than one year old.

TABLE 1 – SAMPLING RESULTS SHOWING THE DETECTION OF COLIFORM BACTERIA

Microbiological Contaminants (complete if bacteria detected)	Highest No. of Detections	No. of months in violation	MCL	MCLG	Typical Source of Bacteria
Total Coliform Bacteria	(In a mo.) 0	0	More than 1 sample in a month with a detection	0	Naturally present in the environment
Fecal Coliform or <i>E. coli</i>	(In the year) 0	0	A routine sample and a repeat sample detect total coliform and either sample also detects fecal coliform or <i>E. coli</i>	0	Human and animal fecal waste

TABLE 2 – SAMPLING RESULTS SHOWING THE DETECTION OF LEAD AND COPPER

Lead and Copper (complete if lead or copper detected in the last sample set)	No. of samples collected	90 th percentile level detected	No. sites exceeding AL	AL	PHG	Typical Source of Contaminant
Lead (ppb)	5	<5	None	15	0.2	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits
Copper (ppm)	5	.141	None	1.3	0.3	Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives

TABLE 3 – SAMPLING RESULTS FOR SODIUM AND HARDNESS

Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	MCL	PHG	Typical Source of Contaminant
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					(MCLG)	
Sodium (ppm)	8/08	15.5	15.5-15.5	none	none	Salt present in the water and is generally naturally occurring
Hardness (ppm)	8/08	164	164-164	none	none	Sum of polyvalent cations present in the water, generally magnesium and calcium, and are usually naturally occurring

*Any violation of an MCL or AL is asterisked. Additional information regarding the violation is provided later in this report.

TABLE 4 – DETECTION OF CONTAMINANTS WITH A PRIMARY DRINKING WATER STANDARD

Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	MCL [MRDL]	PHG (MCLG) [MRDLG]	Typical Source of Contaminant
Gross Alpha Activity – pCi/L	5/12	3.65	1.66-3.65	15	(0)	Erosion of natural deposits
Arsenic - ppb	9/09	3.4	3.4	10	0.004	Erosion of natural deposits; runoff from orchards; glass and electronics production wastes
Antimony - ppb	8/08	<6	ND	6	20	Discharge from petroleum refineries; fire retardants; ceramics; electronics; solder
Cadmium – ppb	8/08	<1	ND	5	0.04	Internal corrosion of galvanized pipes; erosion of natural deposits; discharge from electroplating and industrial chemical factories, and metal refineries; runoff from waste batteries and paints
Fluoride – ppm	8/08	.10	.1	2.0	1	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
Nickel – ppb	8/08	<10	ND	100	12	Erosion of natural deposits; discharge from metal factories
Nitrate (as nitrate, NO ₃) ppm	9/09	<2	0-13	45	45	Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits
Uranium – pCi/L	8/09	<1.0	ND	20	0.43	Erosion of natural deposits
Toluene - ppb	3/12	3.1	ND-3.1	150	150	Discharge from petroleum and chemical factories; underground gas tank leaks
1,2-Dichlorobenzene - ppb	3/12	5.3	3.9-5.3	600	0.06	Discharge from factories, dry cleaners, and auto shops (metal degreaser)
Chlorine - ppm	Jan - Dec	1.44	.46-1.44	[4.0]	[4]	Drinking water disinfectant added for treatment

TABLE 5 – DETECTION OF CONTAMINANTS WITH A SECONDARY DRINKING WATER STANDARD

Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	MCL	PHG (MCLG)	Typical Source of Contaminant
Chloride - ppm	8/08	37.8	37.8	500	N/A	Runoff/leaching from natural deposits; industrial wastes
*Color – Units	8/08	25	25	15	N/A	Naturally-occurring organic materials

*Iron – ppb	11/12	930	430-930	300	N/A	Leaching from natural deposits; industrial wastes
*Manganese - ppb	7/12	53	0-290	50	N/A	Leaching from natural deposits
Specific Conductance µS/cm	6/12	490	420-490	1600	N/A	Substances that form ions when in water; seawater influence
Sulfate - ppm	8/08	47.2	47.2	500	N/A	Runoff/leaching from natural deposits; industrial wastes
Total Dissolved Solids (TDS) - ppm	8/08	290	160-1870	1000	N/A	Runoff/leaching from natural deposits
*Turbidity – Units	8/08	8.8	<1-8.8	5	N/A	Soil runoff
Zinc - ppm	8/08	1.260	1.260	5.0	N/A	Runoff/leaching from natural deposits; industrial wastes

TABLE 6 – DETECTION OF UNREGULATED CONTAMINANTS

Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	Notification Level	Health Effects Language
tert-Butyl alcohol (TBA)	5/12	3.8	ND-3.8	12ppb	Some people who use water containing tert-butyl alcohol in excess of the notification level over many years may have an increased risk of getting cancer, based on studies in laboratory animals.

*Any violation of an MCL, MRDL, or TT is asterisked. Additional information regarding the violation is provided later in this report.

Additional General Information on Drinking Water

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the USEPA's Safe Drinking Water Hotline (1-800-426-4791).

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. USEPA/Centers for Disease Control (CDC) guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and other microbial contaminants are available from the Safe Drinking Water Hotline (1-800-426-4791).

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. Hillview Water Company, inc. is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at <http://www.epa.gov/safewater/lead>.

Hillview Water Company has received a Proposition 50 grant that will replace the Iron & Manganese removal treatment plant in Oakhurst and is planning to move the current plant In the Forest Ridge area to Coarsegold. Turbidity has no health effects. However, high levels of turbidity can interfere with disinfection and provide a medium for microbial growth. Turbidity may indicate the presence of disease-causing organisms. These organisms include bacteria, viruses, and parasites that can cause symptoms such as nausea, cramps, diarrhea, and associated headaches. Ongoing bacteriological testing indicates that there are NO disease-causing organisms. The notification level for manganese is 500 ppb. The notification level for manganese is used to protect consumers from neurological effects. High levels of manganese in people have been shown to result in effects of the nervous system.

Summary Information for Violation of a MCL, MRDL, AL, TT, or Monitoring and Reporting Requirement

VIOLATION OF A MCL, MRDL, AL, TT, OR MONITORING AND REPORTING REQUIREMENT				
Violation	Explanation	Duration	Actions Taken to Correct the Violation	Health Effects Language
*Color (a)	Naturally-occurring organic materials	None.	Proposition 50 grant from the California Department of Public Health which will provide filtration. The project is in progress. Completion expected in 2014.	(a) Color is a secondary drinking water standard and no Health Effects Language is provided.
*Iron (a) - ppb	Leaching from natural deposits; industrial wastes	Until the Iron & Manganese removal Plant from Forest Ridge in Oakhurst is moved to Coarsegold.	Proposition 50 grant from the California Department of Public Health which will provide filtration. The project is in progress. Completion expected in 2014.	The Manganese MCL is a secondary drinking water standard and no Health Effects Language is provided for the MCL of 50ppb, only for the notification level of 500ppb.
*Manganese (a) - ppb	Leaching from natural deposits	Until the Iron & Manganese removal Plant from Forest Ridge in Oakhurst is moved to Coarsegold.	Proposition 50 grant from the California Department of Public Health which will provide filtration. The project is in progress. Completion expected in 2014.	The Manganese MCL is a secondary drinking water standard and no Health Effects Language is not provided for the MCL of 50ppb, only for the notification level of 500ppb.
*Turbidity (a)	Soil runoff	None. The well does not feed directly into distribution. Blending will continue.	Hillview has received a Proposition 50 grant from the California Department of Public Health which will provide treatment, additional source & blending. The project is in progress. Completion expected in 2014.	(a) The Turbidity MCL is a secondary drinking water standard and no Health Effects Language is provided.

(a) There are no PHGs, MCLGs, or mandatory standard health effects language for these constituents because secondary MCLs are set on the basis of aesthetics.

For Water Systems Providing Ground Water as a Source of Drinking Water**TABLE 7 – SAMPLING RESULTS SHOWING
FECAL INDICATOR-POSITIVE GROUND WATER SOURCE SAMPLES**

Microbiological Contaminants (complete if fecal-indicator detected)	Total No. of Detections	Sample Dates	MCL [MRDL]	PHG (MCLG) [MRDLG]	Typical Source of Contaminant
<i>E. coli</i>	0		0	(0)	Human and animal fecal waste
Enterococci	0		TT	n/a	Human and animal fecal waste
Coliphage	0		TT	n/a	Human and animal fecal waste